How the tracking system works?

<u>Reference File</u>

TCS Blanket Management System (TCSB)

Each TCS part is assigned a "Vxxxxx" series bar code as follows: V0 for spares, V1 for mission kits, V2 for OV-102, v3 for OV-103, V4 for OV-104, V5 for OV-105, and V6 for OMS pods.

The barcode assigned is for the life of the part from inception to mod out point.

Carrier Panel Tracking System (CPTS)

Each Carrier Panel is assigned a "XXXYYYYZZZ" series bar code as follows:

The first three characters "XXX" are the vehicle or component, i.e. F03 for FRC3, F04 for FRC4, F05 for FRC5, L01 for LP01, L03 for LP03, L04 for LP04, R01 for RP01, R03 for RP03, R04 for RP04, V03 for OV-103, V04 for OV-104, and V05 for OV-105.

The second four characters "YYYY" are the penetration numbers.

The last three characters "ZZZ" are a sequential number, starting with 001.

The barcode assigned is for the life of the part from inception to mod out point.

Each bar code is entered into either TCSB or CPTS.

Each barcode is loaded with vehicle or component, part number, serial number, drawing zone, installation drawing, vehicle zone, find number, WAD number, and any other pertinent information.

The bar code can also be loaded with special installation instructions for each particular case in TCSB. In CPTS, the remarks are loaded via Carrier Panel Kitting.
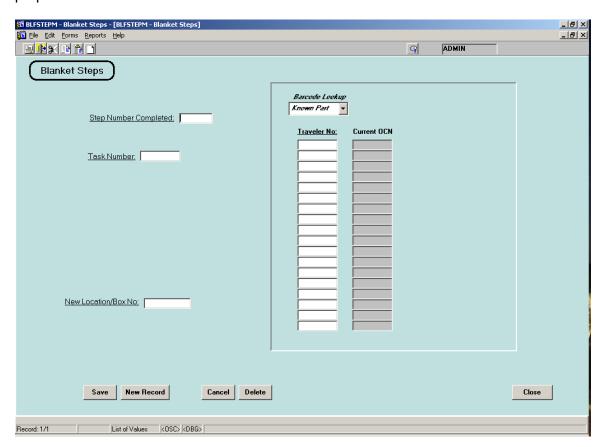
<u>Tracking System</u>

The purpose of the tracking systems is to status every vehicle part that is removed until it is re-installed.

This is accomplished by removing the part, logging into the respective tracking system, opening the first screen (Blanket Steps or Carrier Panel Steps) under either the TCSB or CPTS menu and entering step 1, the WAD, location, and bar code for each removed part.

Note: the examples shown below each screen are from TCSB as evident from the name "Blanket". Screens for CPTS are similar and are labeled as Carrier Panel.
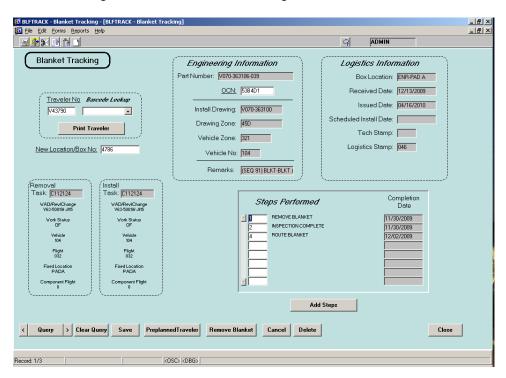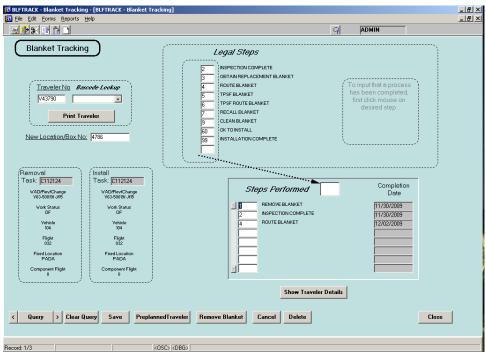
Screen 1: Steps
The system will prompt the user whether they want to print the log (TCSB) or travelers (both TCSB & CPTS). It generates each separately and then they can be printed. In CPTS, the traveler is sometimes pre-staged with the removal WAD using a step 0 for preplanned work.

Screen 2: Tracking
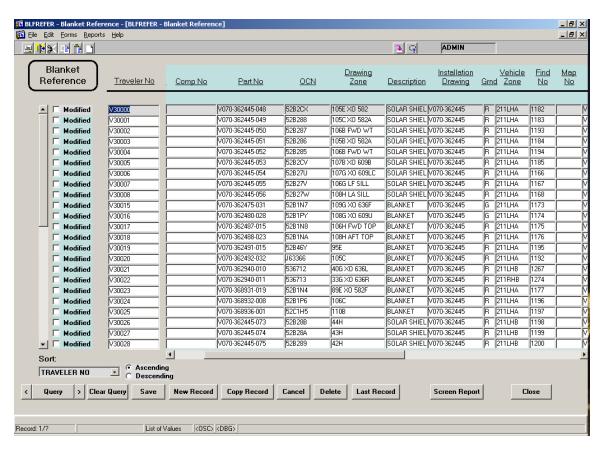
All subsequent steps (2 - inspection, 3- Obtain Replacement, 5- TPSF Fabrication, 6 - TPSF Routing, 4 - logistics, 7 - Recall, 9 - Cleaning, 60 - ok to install, and 99 - installed) may be entered in this same manner. An alternative method used is via screen 2 (Blanket Tracking or Carrier Panel Tracking). Screen 2 is the preferred screen for location changes and serial number changes.
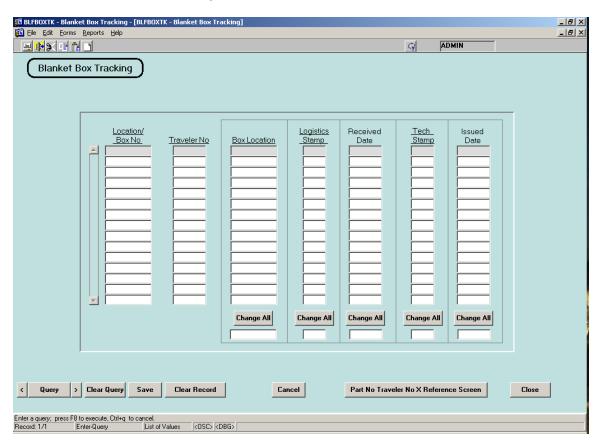
Screen 3: Reference file
This is the engineering reference file that the bar code pulls from. Maintained by anyone with Admin functions in either TCSB or CPTS.

BLFREFER - Blanket Reference - [BLFREFER - Blanket Reference]

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ADMIN

Blanket Reference

	Traveler No	Comp No	Part No	OCN	Drawing Zone	Description	Installation Drawing	Grnd	Vehicle Zone	Find No	Map No
Modified	V30000		V070-362445-048	52B2CX	105E XO 582	SOLAR SHIEL	V070-362445	R	211LHA	1182	M
Modified	V30001		V070-362445-049	52B288	105C XO 582A	SOLAR SHIEL	V070-362445	R	211LHA	1183	M
Modified	V30002		V070-362445-050	52B287	106B FWD WT	SOLAR SHIEL	V070-362445	R	211LHA	1193	M
Modified	V30003		V070-362445-051	52B286	105B XO 582A	SOLAR SHIEL	V070-362445	R	211LHA	1184	M
Modified	V30004		V070-362445-052	52B285	106B FWD WT	SOLAR SHIEL	V070-362445	R	211LHA	1194	M
Modified	V30005		V070-362445-053	52B2CV	107B XO 609B	SOLAR SHIEL	V070-362445	R	211LHA	1185	M
Modified	V30006		V070-362445-054	52B27U	107G XO 609LC	SOLAR SHIEL	V070-362445	R	211LHA	1166	M
Modified	V30007		V070-362445-055	52B27V	106G LF SILL	SOLAR SHIEL	V070-362445	R	211LHA	1167	M
Modified	V30008		V070-362445-056	52B27W	108H LA SILL	SOLAR SHIEL	V070-362445	R	211LHA	1168	M
Modified	V30015		V070-362475-031	52B1N7	109G XO 636F	BLANKET	V070-362445	G	211LHA	1173	M
Modified	V30016		V070-362480-028	52B1PY	108G XO 609U	BLANKET	V070-362445	G	211LHA	1174	M
Modified	V30017		V070-362487-015	52B1N8	106H FWD TOP	BLANKET	V070-362445	R	211LHA	1175	M
Modified	V30018		V070-362488-023	52B1NA	108H AFT TOP	BLANKET	V070-362445	R	211LHA	1176	M
Modified	V30019		V070-362491-015	52B46Y	95E	BLANKET	V070-362445	R	211LHA	1195	M
Modified	V30020		V070-362492-032	J63366	105C	BLANKET	V070-362445	R	211LHA	1192	M
Modified	V30021		V070-362940-010	536712	40G XO 636L	BLANKET	V070-362445	R	211LHB	1267	M
Modified	V30022		V070-362940-011	536713	33G XO 636R	BLANKET	V070-362445	R	211RHB	1274	M
Modified	V30023		V070-368931-019	52B1N4	89E XO 582F	BLANKET	V070-362445	R	211LHA	1177	M
Modified	V30024		V070-368932-008	52B1P6	106C	BLANKET	V070-362445	R	211LHA	1196	M
Modified	V30025		V070-368936-001	52C1H5	110B	BLANKET	V070-362445	R	211LHA	1197	M
Modified	V30026		V070-362445-073	52B28B	44H	SOLAR SHIEL	V070-362445	R	211LHB	1198	M
Modified	V30027		V070-362445-074	52B28A	43H	SOLAR SHIEL	V070-362445	R	211LHB	1199	M
Modified	V30028		V070-362445-075	52B289	42H	SOLAR SHIEL	V070-362445	R	211LHB	1200	M

Sort:

TRAVELER NO   • Ascending   ○ Descending

| < | Query | > | Clear Query | Save | New Record | Copy Record | Cancel | Delete | Last Record | Screen Report | Close |

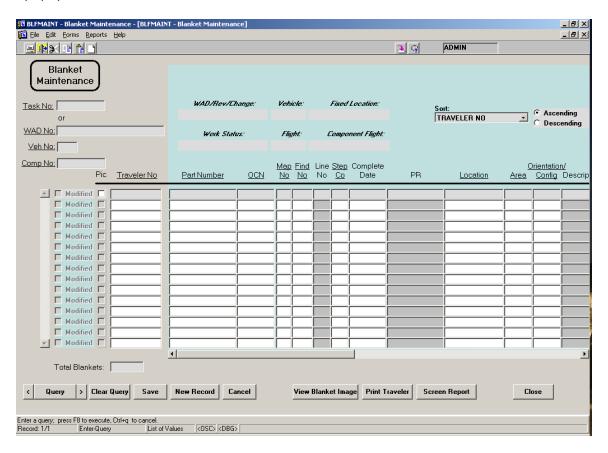Record: 1/?   List of Values   <OSC> <DBG>

Screen 4: Box Tracking

Box tracking is used to locate parts into a box or container, then route/transfer the box or container to into and out of Logistics.
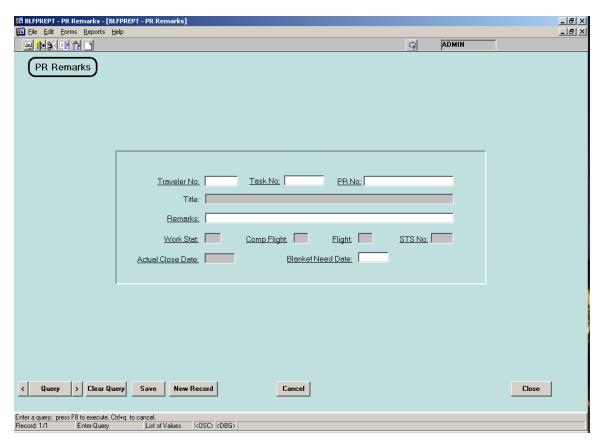
Screen 5: Blanket Maintenance (TCSB only)
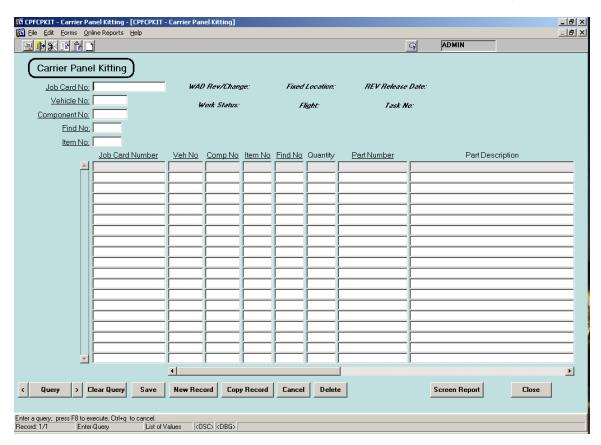Due to HMF unique processes, this screen was developed as a combination Screen 1, 2, 3, 4, and 99.

Screen 6: PR Remarks (TCSB)/Screen 5 (CPTS)
When is PR is generated, this screen ties the PR to the bar code in the tracking system.
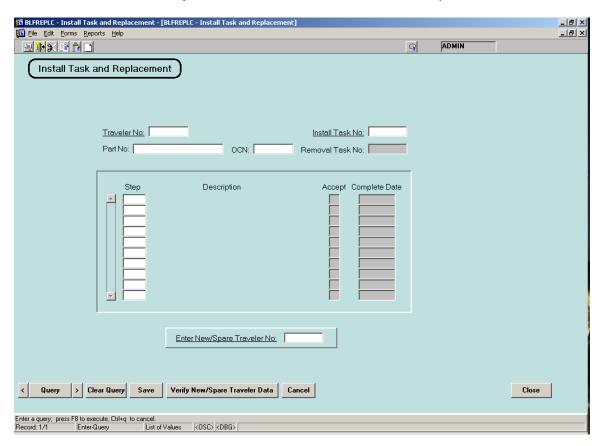A Remarks is entered to reflect new or spare replacement.

Screen 6: Carrier Panel Kitting (CPTS only)
In CPTS, each carrier panel is inspected and kitted up with hardware for re-installation.
This screen is used to pulls all the required parts, to be kitted, for that carrier panel.

Screen 7: Install Task and Replacement (TCSB)
This screen is used in conjunction with the PR screen to reflect replacement.

Screen 8: Vehicle Area/Zone/Bay Legal Value (TCSB)/ Screen 7 (CPTS)
This screen shows the legal values for vehicle area, zone, bay. This screen is also used to add or delete legal values by those with Admin approval.

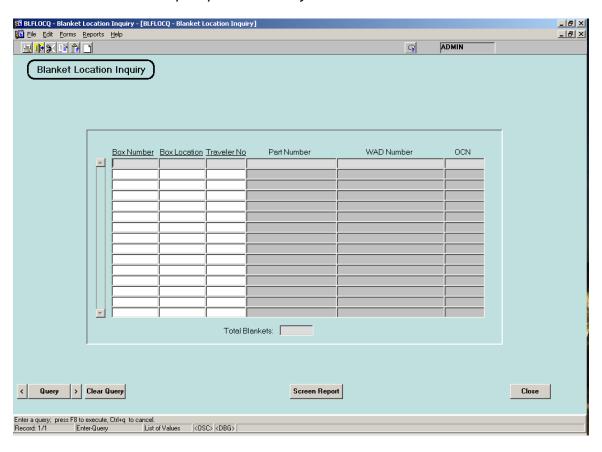*Screen 9: Location Legal Value (TCSB)/Screen 8 (CPTS)*
This screen shows the legal values for locations. This screen is also used to add or delete legal values by those with Admin approval.
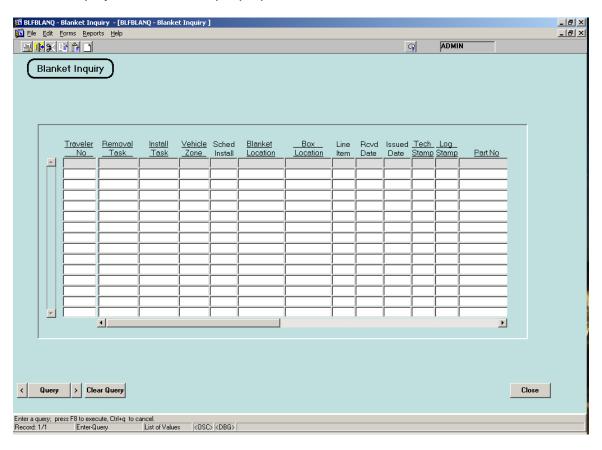
Screen 10: Part Number to traveler Inquiry (TCSB only)
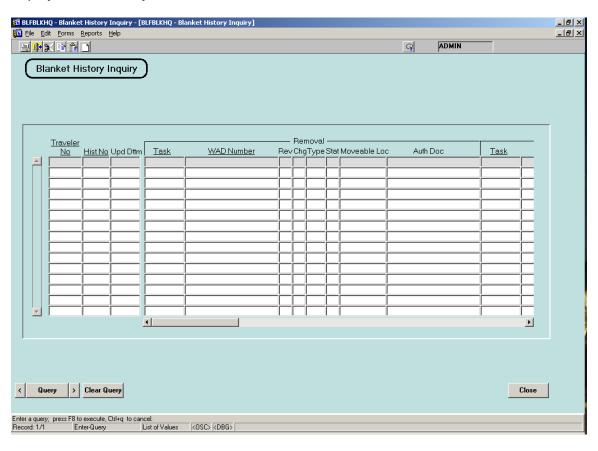*This screen is used to inquire part number to traveler bar codes.*

Part Number	Traveler No	OCN	Install Drawing No	Drawing Zone	Vehicle Zone	WAD No	Log Line Item	Location	Box Location	Comp No	Veh No

[<] Query [>]   Clear Query   Box Tracking Screen   Close

Enter a query; press F8 to execute, Ctrl+q to cancel.
Record: 1/1   Enter-Query   List of Values   <OSC> <DBG>

Screen 11: Location Inquiry (TCSB)/Screen 10 (CPTS)
This screen is used to inquire part location by traveler bar code.
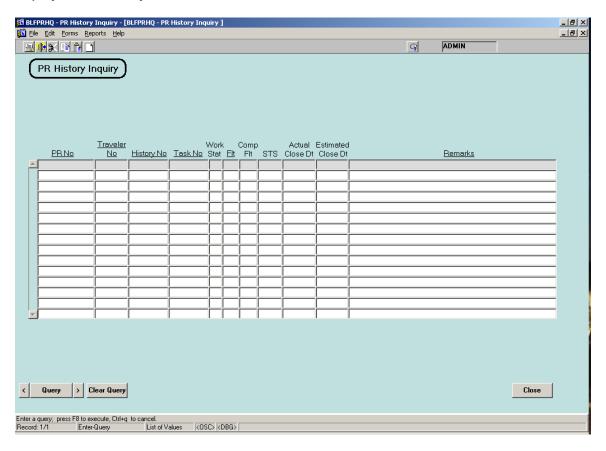
Screen 12: Inquiry (TCSB)/ Screen 11 (CPTS)
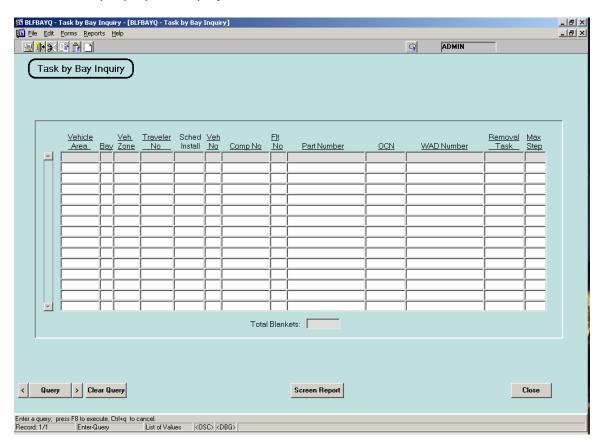*Another inquiry screen for multiple purposes.*

BLFBLANQ - Blanket Inquiry - [BLFBLANQ - Blanket Inquiry]

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Blanket Inquiry

Traveler No	Removal Task	Install Task	Vehicle Zone	Sched Install	Blanket Location	Box Location	Line Item	Rcvd Date	Issued Date	Tech Stamp	Log Stamp	Part No

| < | Query | > | Clear Query | Close |

Enter a query; press F8 to execute, Ctrl+q to cancel.

Record: 1/1   Enter-Query   List of Values   <OSC> <DBG>

Screen 13: History Inquiry (TCSB)/Screen 12 (CPTS)
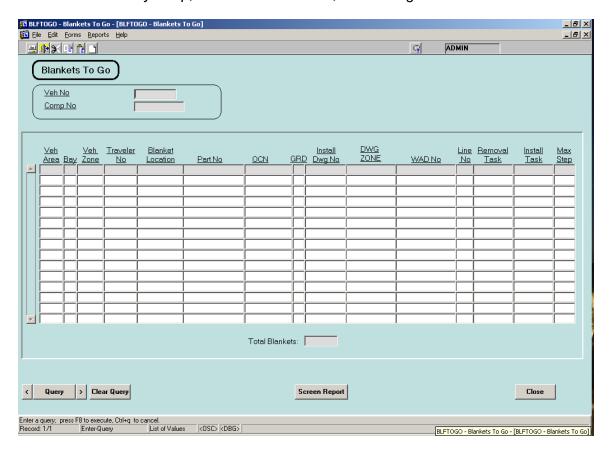*Inquiry to Part history screen.*

Screen 14: PR History Inquiry (TCSB)/Screen 13 (CPTS)
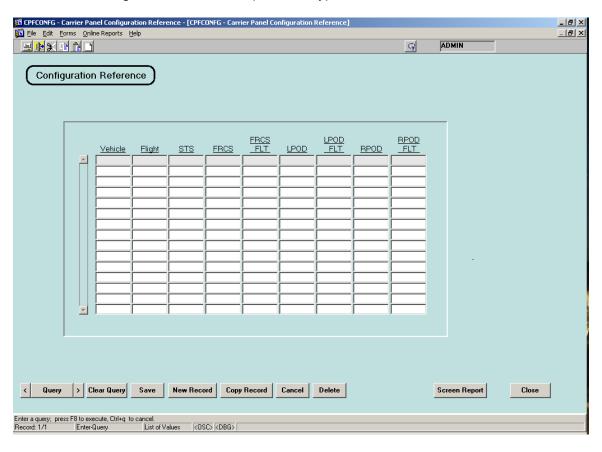*Inquiry to PR history.*

Screen 15: Task By Bay Inquiry (TCSB)/Screen 14 (CPTS)
Another multiple purpose inquiry screen.

Screen 16: To Go Inquiry (TCSB)/Screen 15 (CPTS)
The To Go inquiry screen shows how many parts to install in each area to complete
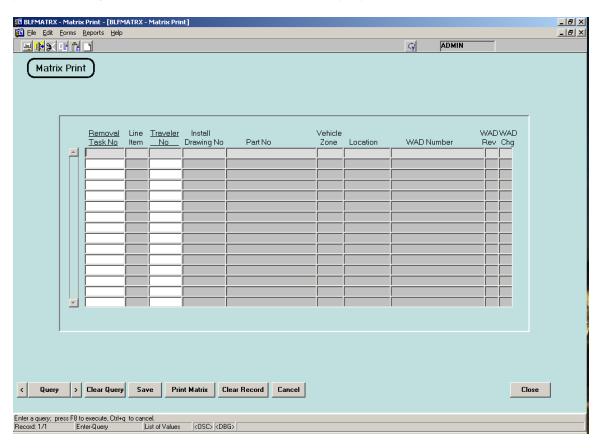*close-outs. Used by Shop, Planners/Schedulers, and Management for status.*
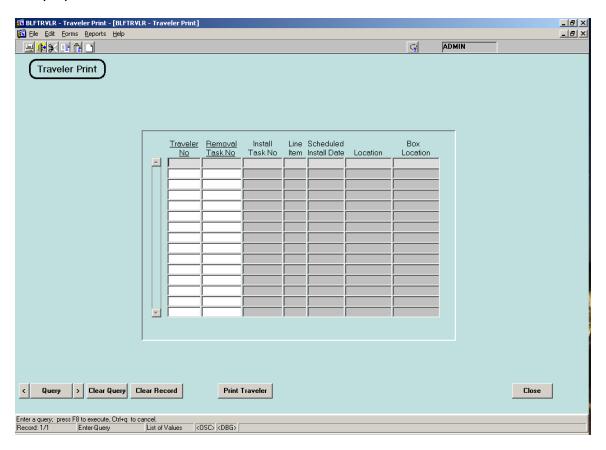
Screen 16: Configuration Reference (CPTS only)

Screen 17: Matrix Print (TCSB only)
The Blanket Removal-Installation Log automatically is generated with each removal and is printed at time of removals. If the Blanket Removal-Installation Log needs to be re-printed for any reason, this screen is used for that purpose.
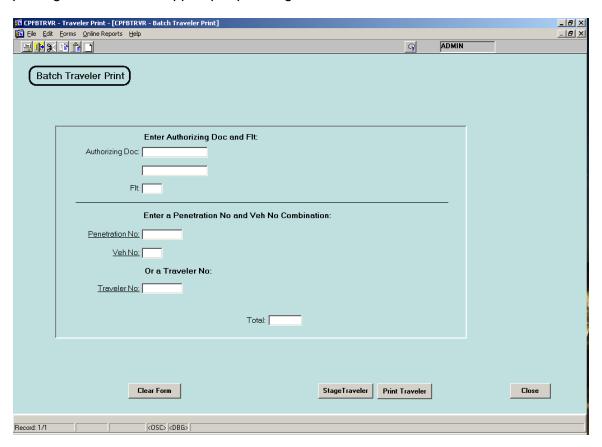
Screen 18: Traveler Print (TCSB)/Screen 17 (CPTS)
The Traveler automatically is generated with each removal and is printed at time of removals. If the Traveler needs to be re-printed for any reason, this screen is used for that purpose.

Screen 18: Batch Traveler Print (CPTS only)
In CPTS travelers are pre-printed during WAD buildup. This screen provides batch printing of travelers to support pre-planning.

Note: Parts that are removed and stored in Logistics are tracked by their respective system.